Receipt Thermal Printer

Inno-Pos P80

User's Manual

http://www.noyabilgisayar.com/

Version 1.0

Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Declaration of Conformity

These devices comply with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. These devices may not cause harmful interference.
   These devices must accept any interference received, including interference that may cause undesired operation.

Industry Canada (IC)

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

WEEE (Waste from Electrical and Electronic Equipment)

The WEEE wheeled bin symbol on the product or on its packaging indicates that the product must not be disposed of with other waste. It should be the user's responsibility to dispose of their waste equipment by handing it over to an approved location for the recycling of waste electrical and electronic equipment. For more information about where to send your waste equipment for recycling, please contact your local city office, your household waste disposal service or where you purchased the product.

Disclaimer

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Safety Instructions

Failure to observe these safety instructions may cause body injury, or damage to the product. Read these instructions carefully and keep this user manual in an accessible location for future reference.

The product may cause fire or electric shock when used improperly. Observe the following safety measures all the time.

If the product is damaged, immediately turn off the power and disconnect the power cord. Contact your dealer for assistance.

1. Do not plug in or unplug the power cord with wet hands.
2. Do not plug the product into an AC outlet with the incorrect voltage (The correct voltage should be between AC 100V~240V.)
3. Do not plug several products in one multi-outlet.
4. Do not apply pressure to the power cord or place heavy objects on it.
5. Immediately stop using the product if it emits strange noise, odor, or smoke.
6. Do not use aerosol sprayers containing flammable gas inside or around the product.
7. Do not allow foreign objects or liquids to enter the product, serious damage may result.
8. Do not try to disassemble or repair the product yourself.
9. Do not place the product on an unstable surface. The product may cause a fire if it is dropped, damaged, or broken.

The following instructions will help you make better use of this product.

1. Keep the product from locations subject to high humidity, dust, and temperatures out of specification.
2. Clean the product using a dry cloth or a cloth soaked with detergent. Never use thinner or other volatile solvent for cleaning.
3. At the end of the day, clean and inspect the exterior of the product after turning OFF the product.
4. Use only approved accessories.
5. Do not place heavy objects on top of the product /or lean against the product, these items may fall and cause injury.
6. Do not block the air vent of the product, this can cause heat to build up inside the boxed product and may lead to fire.

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Chapter 1 Product Overview

This section describes the features and the package contents and provides an overview of the printer parts.

1.1 Introduction

Thank you for choosing INNO-POS P80 Thermal Receipt Printer, a high quality and high speed printer ideal for use with Electronic Cash Registers (ECR), Point-of-Sale (POS) terminals, banking equipments and other demanding applications.

Read this manual for information on how to operate and maintain your printer. The content of this manual is as accurate as possible. However, due to continuous product improvements, the content is subject to change without prior notice. Visit our website http://www.noyabilgisayar.com/ for further information.

1.2 Features

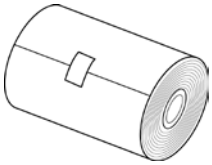
- Aerodynamic, compact and stylish
- High resolution printing up to 203 dpi
- High speed printing up to 220 mm/s
- Low noise thermal printing method
- Quick and easy drop-in paper loading
- Auto-cutter and tear bar

1.3 Package Contents

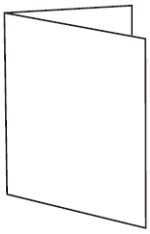
Standard Package

The following items come with your package. If any item is missing or damaged, contact the dealer from whom you purchased the product.

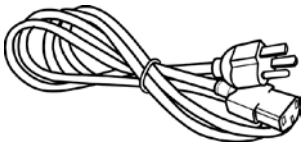
Thermal receipt printer



Starter paper roll



Quick reference guide



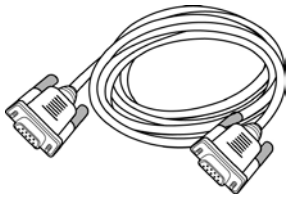
Power cord

Power adapter

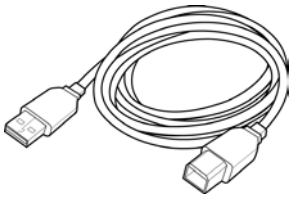
CD (User's Manual included)

Optional Accessories

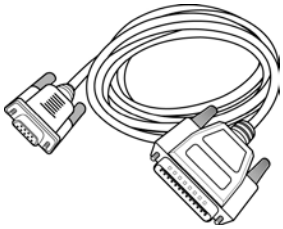
Optional accessories can be purchased from your dealer.



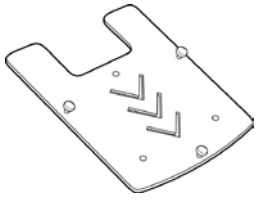
RS232 cable



USB cable



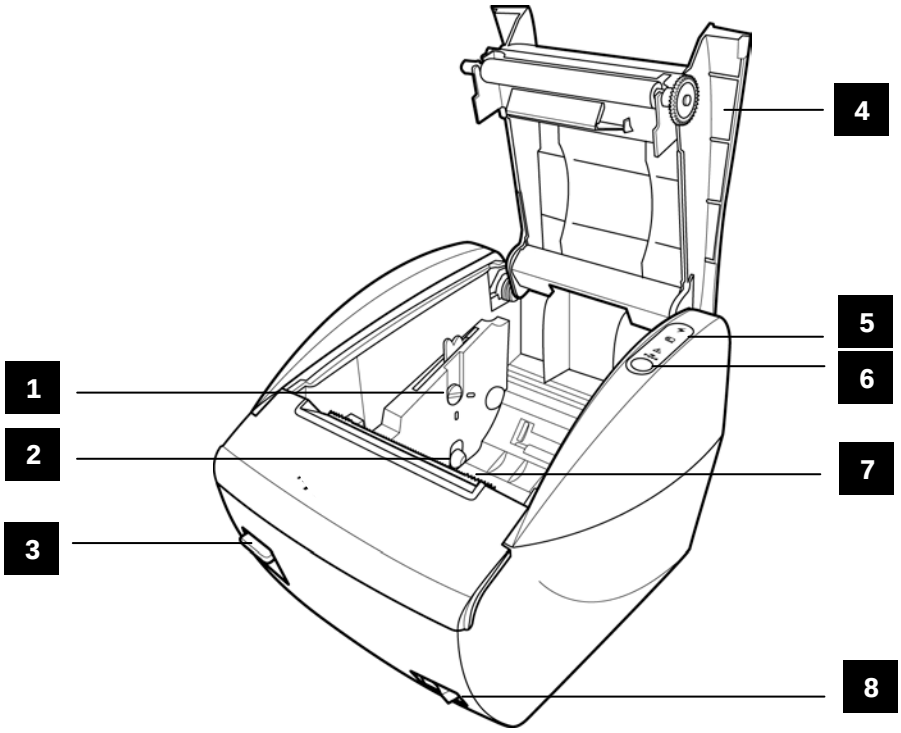
Parallel cable



Wall mount kit

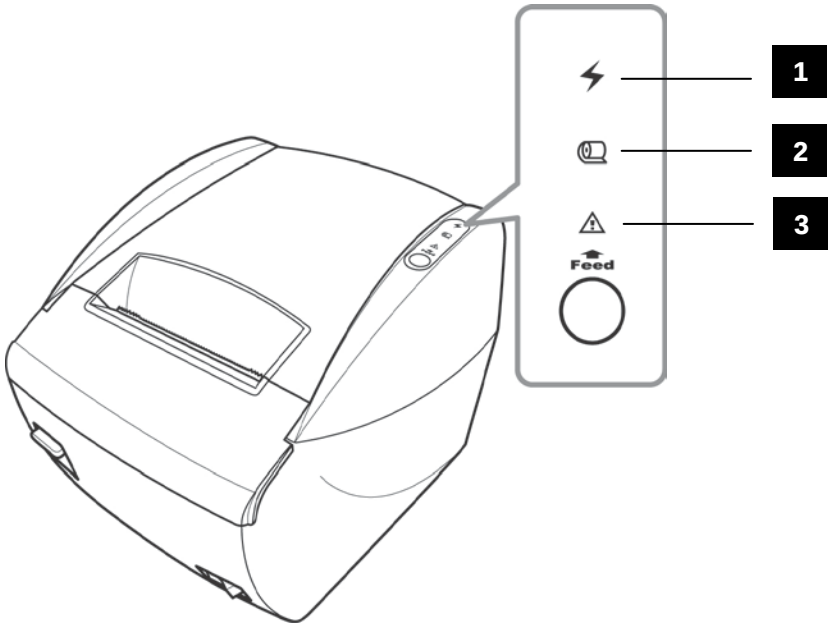
1.4 Printer Parts

Front View and Compartment



No.	Item	Description
1	**Adjustment screw**	Loosen the screw to adjust the paper sensor. See “3.3 Adjusting the Paper Sensor” on page ***22***.
2	**Paper sensor**	Senses if paper is nearing its end. See “3.3 Adjusting the Paper Sensor” on page ***22***.
3	**Open button**	Press to open the compartment.
4	**Compartment cover**	Protects the compartment; press down to close.
5	**Status indicators**	Lights to indicate printer status. See “Status Indicators” on page ***11***.
6	**Feed button**	Press to feed paper.
7	**Cutter**	Use to cut the paper manually. **Note:** Auto-cutter blade is located below this cutter.
8	**Power button**	Turns the printer on or off.

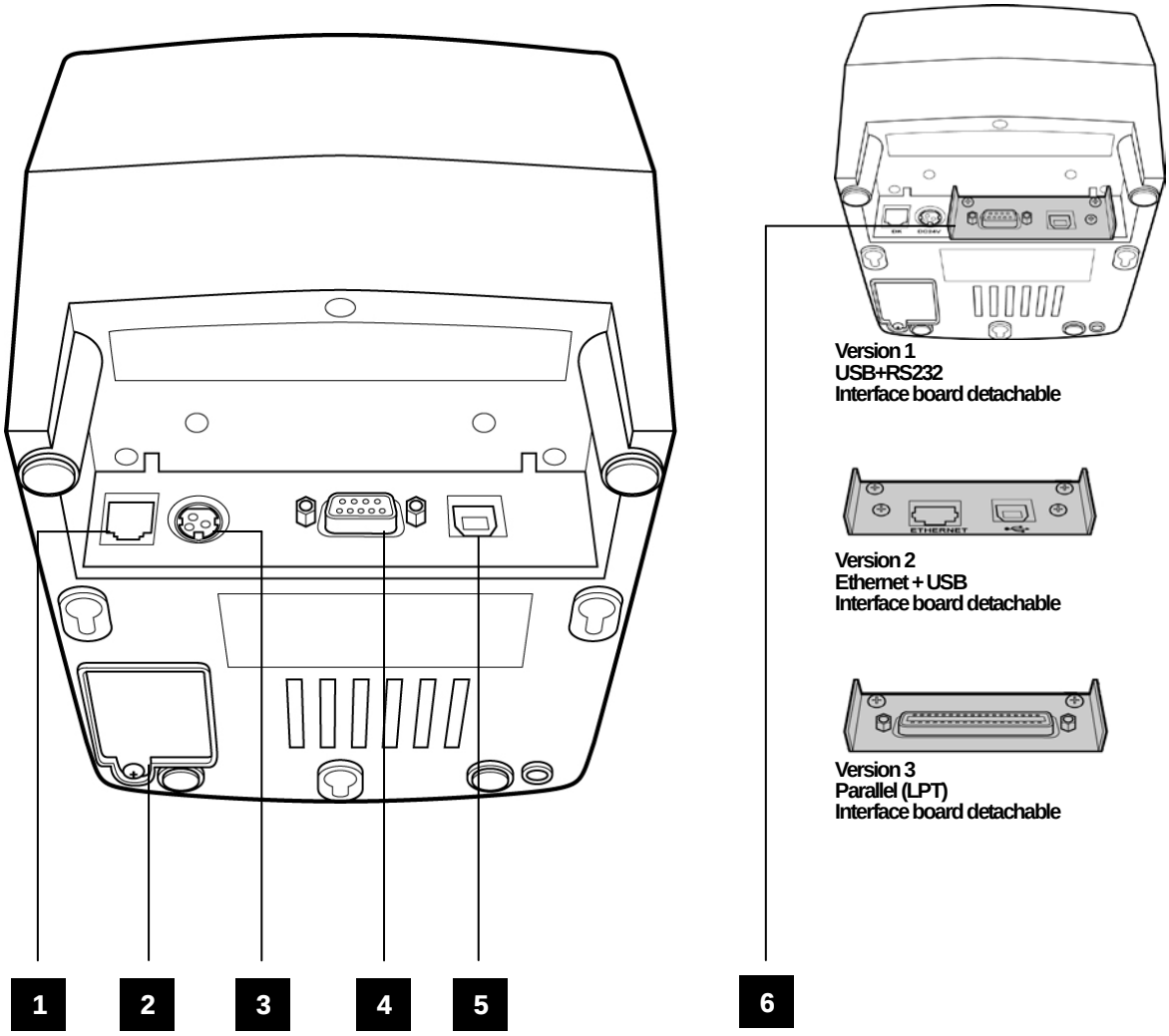
Status Indicators



No.	Indicator	Color		Description
1	**Power LED**	Green	Solid	Power is on
		Off	-	Power is off
2	**Paper LED**	Amber	Solid	Paper roll is near its end / No paper
3	**Error LED**	Red	Solid	Compartment cover open / No paper
		Red	Flashing	Error occurred: • Compartment cover open while printing • Printer head temperature too high • Paper jam

Troubleshooting" on page *44* for more information.

Rear View



No.	Item	Description
1	**Drawer kick-out connector**	Connects to cash drawers.
2	**DIP switch compartment**	Holds the DIP switch.
3	**Power connector**	Connects the power adapter.
4	**Serial connector**	Connects to the host system (POS) using the serial cable.
5	**USB connector**	Connects to the host system (POS) using the USB cable.

6	**Other interface version**	Beside the standard version (USB + RS232, interface board non- detachable), the INNO-POS P80 is available in other 3 versions which interface board is detachable as shown in the table . The interface board is separately available.

NOTE: Please refer to ***INNO-POS P80 User's Manual CH. 2 Getting Started*** for the complete instructions.

Chapter 2: Getting Started

This section describes how to set up the printer for the first time and provides instructions on basic operations, such as turning on the printer, loading the paper roll and others.

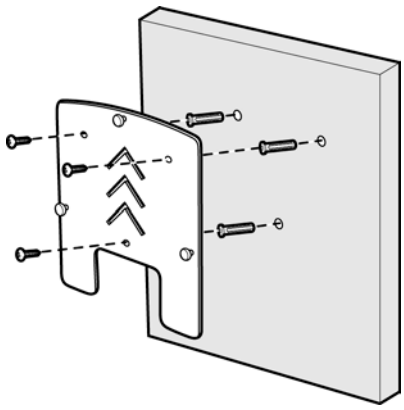
2.1 Choosing a Location

The printer can be placed on a level surface or mounted on the wall.

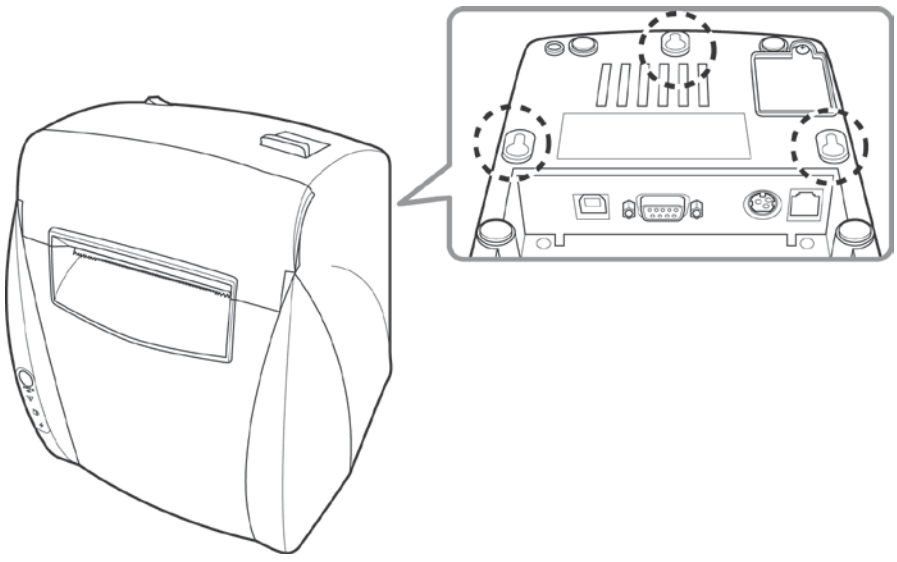
Mounting the Printer

NOTE:
To mount the printer, a wall mount kit is required.
Use only approved wall mount kits. Contact your dealer to purchase.

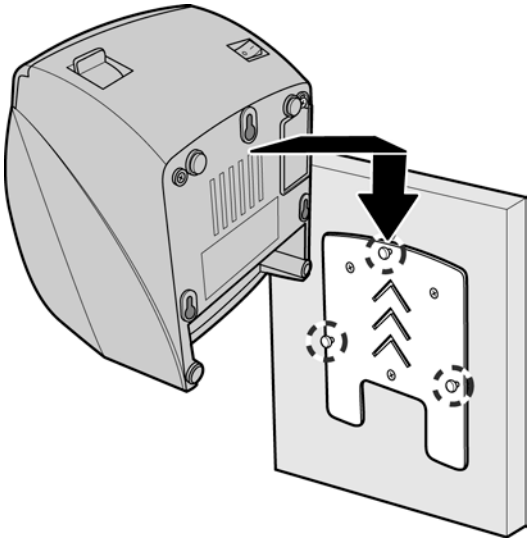
1. Drill the wall to make three holes at Φ 6.5mm distance and depth over 35mm. Insert the three anchors inside the each hole.
2. Attach the mounting bracket to the wall surface using the three screws.



3. Align the mounting screws to the designated hook holes of the printer.



4. Push down the printer to secure it.



Location Considerations

- Place or mount the printer where there is enough room to access the cable connections and replace the paper rolls.
- Make sure the cables are not easily stepped on to avoid disconnection or knocking the printer.

2.2 Connecting the Computer

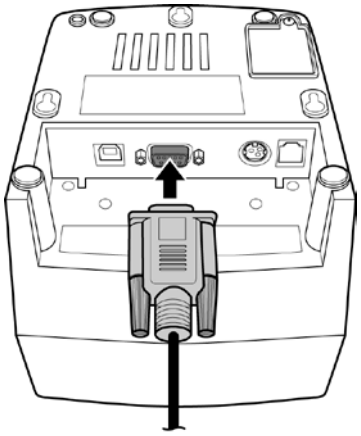
You can connect the host computer using one of the following connections:

- Serial interface
- USB interface

WARNING:
Before making any connections, ensure that the printer, the computer, and the cash drawers are turned off.

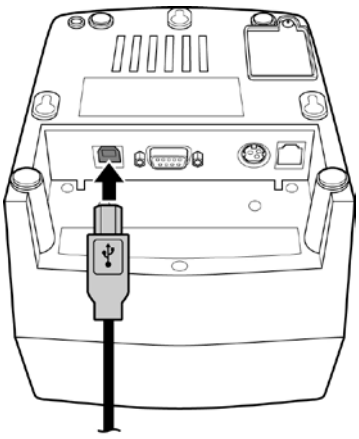
By Serial Interface Connection

1. Plug the male end to the serial port of the computer.
2. Plug the female end of the serial cable into the serial connector of your printer.



By USB Interface Connection

1. Plug the USB type B end of the cable to the USB port of your printer.
2. Plug the standard end to the USB port of the computer.



2.3 Connecting the Cash Drawer

You can connect up to two cash drawers to one printer.

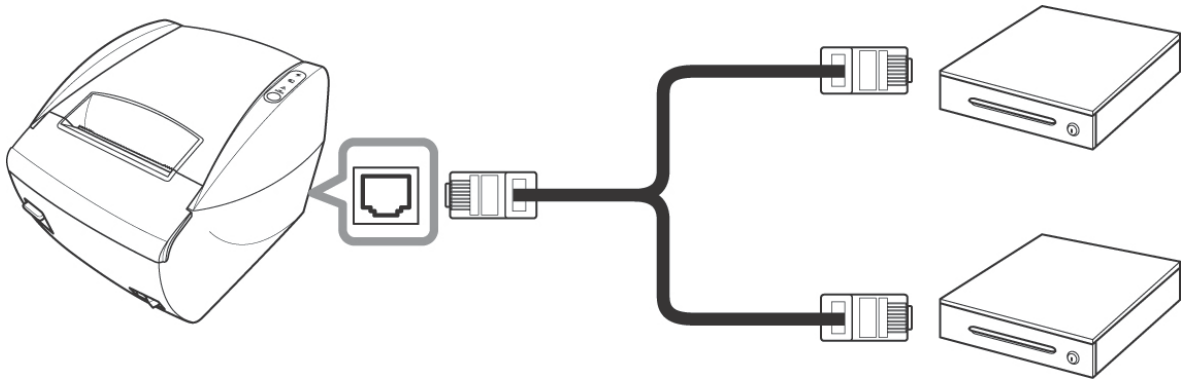
Single Cash Drawer

1. Plug one end of an RJ-11 cable to the drawer kick-out connector of your printer.
2. Plug the other end to the connector of the cash drawer.

Two Cash Drawers

NOTE:
An RJ-11 Y-cable is needed to connect two cash drawers to your printer. Contact your dealer to purchase.

1. Plug the single end of the Y-cable to the drawer kick-out connector of your printer.
2. Plug the other ends to the connectors of the cash drawers.

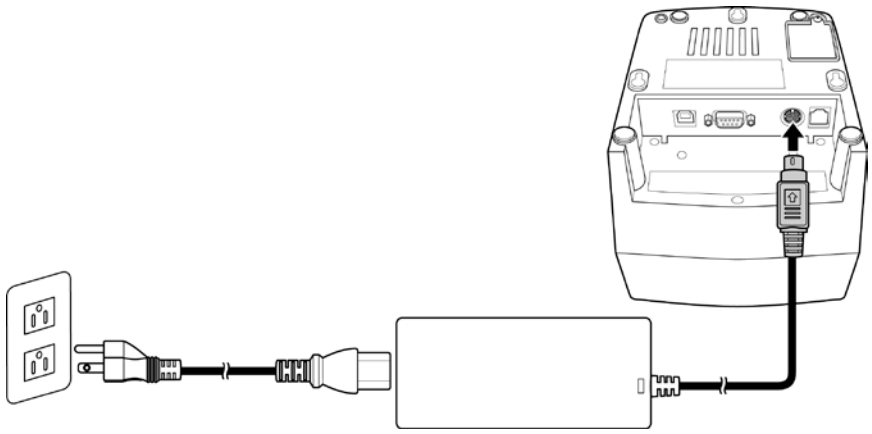


WARNING:
DO NOT connect a telephone line to your printer. This may damage the printer or the telephone.

2.4 Connecting the Power Supply

WARNING:
Before connecting the power, ensure that the **Power** button is off.

1. Plug the power adapter to the power connector of your printer.
2. Connect the power adapter to the power cord.
3. Plug the power cord to a wall outlet.

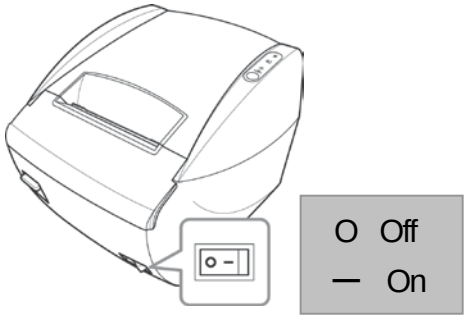


WARNING:
May cause electric shock!

- When the power cord is plugged to a wall outlet, DO NOT unplug the power adapter from the printer or the power cord.
- To disconnect the power cord, grasp and pull by the plug head, DO NOT tug on the cord.

2.5 Turning the Printer On

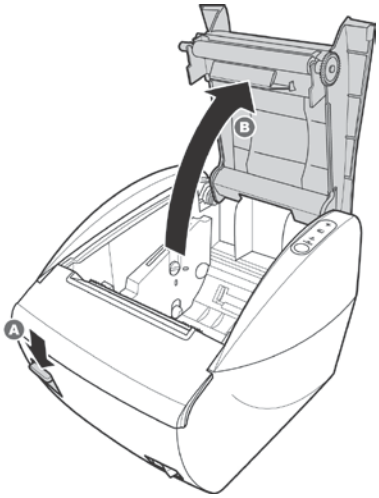
Press the **Power** button to turn the printer on/off.



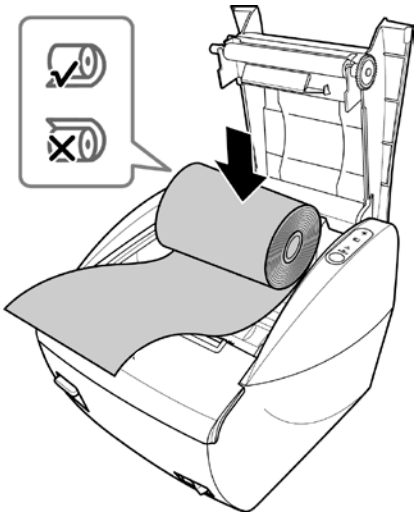
WARNING:
DO NOT turn off the power while printing data. This may cause data loss or damage the printer.

2.6 Loading the Paper Roll

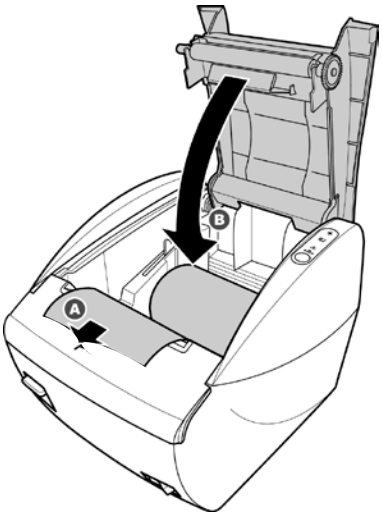
1. Press the **Open** button to open the compartment cover.



2. Place the paper roll into the compartment. Take note of the correct paper direction.



3. Pull out a small portion of the paper then push down the compartment cover to close it.



4. Tear off the excess paper if necessary.

2.7 Printing a Test Label

Print a test label to check if your printer is working properly.

NOTE:
Before printing a test label, make sure all connections are properly connected and there is enough paper roll in the compartment.

1. Press and hold the **Feed** button and then turn on the power.

   The printer prints out the current status, firmware version, and DIP switch settings. After which, the printer pauses and the **Paper LED** flashes.

2. Press the **Feed** button to continue printing the test label.

   The printer prints out the built-in character set.

3. After printing, the printer automatically cuts the paper. Pull out the paper.

Chapter 3: Using the Printer

3.1 Basic Controls

Power Button

Press the **Power** button to turn the printer on/off.

WARNING:
DO NOT turn off the power while printing data. This may cause data loss or damage the printer.

Open Button

Press the **Open** button to open the compartment cover.

Feed Button

Press the **Feed** button to feed the paper one line at a time.
Press and hold the **Feed** button to continuously feed the paper.

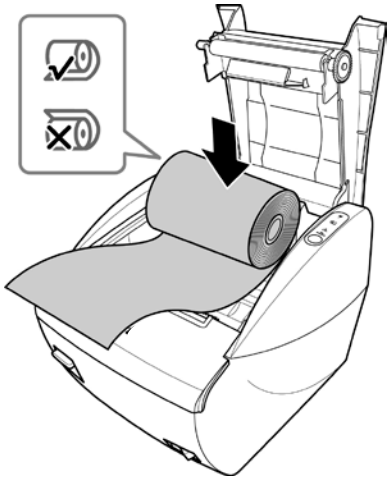
3.2 Replacing the Paper Roll

NOTE:

- Always use high quality and approved paper rolls. Contact your dealer to purchase.
- Remove any adhesives on the paper roll before loading.

If the paper runs out while printing, DO NOT turns off the printer while replacing the paper roll. Otherwise, the queued data may be lost.

1. Press the **Open** button to open the compartment cover.
2. Remove the used paper roll core.
3. Place the new paper roll into the compartment. Take note of the correct paper direction.
4. Pull out a small portion of the paper then close the compartment cover.
5. Press the **Feed** button to restart printing.



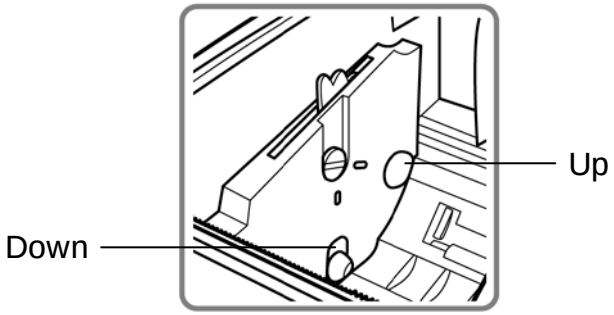
3.3 Adjusting the Paper Sensor

NOTE:
You need a screw driver or a coin to adjust the paper sensor.

The built-in paper sensor detects if the paper roll is near its end and triggers the Paper LED to light up.

It has two adjustment settings:

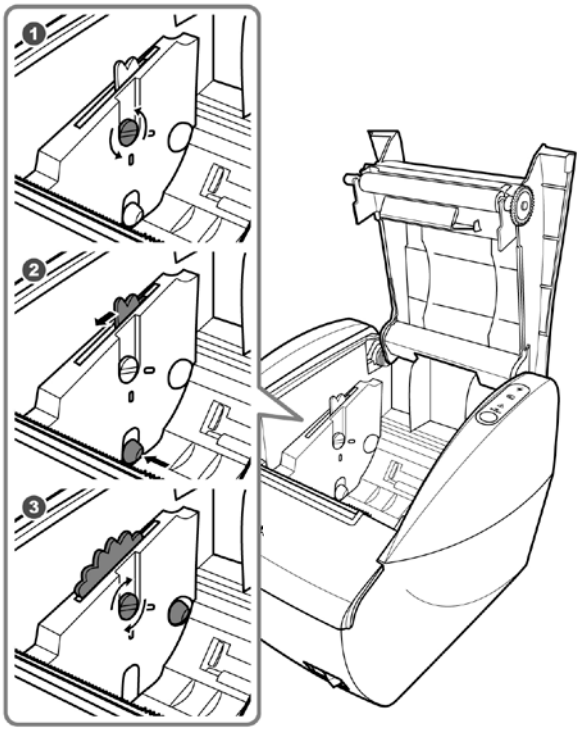
- **Down**: Use if the printer is placed on a flat surface, such as a counter-top.
- **Up**: Use if the printer is mounted on a wall.



By default, the paper sensor is set to its “down” position.

To adjust the paper sensor, do the following:

1. Loosen the adjustment screw using a coin or screw driver.
2. Move the knob to adjust the sensor.
3. Secure the adjustment screw to fix the sensor.



3.4 Removing Jammed Paper

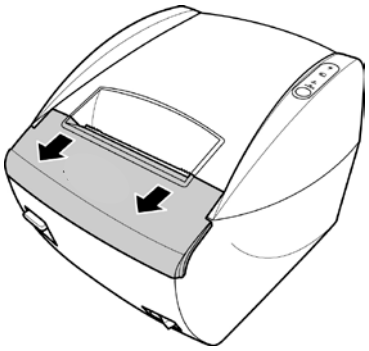
When paper jams, the Error LED flashes (see “Chapter 7 Troubleshooting” on page *44*). When this happens, do the following steps to remove the jammed paper:

1. Turn off the printer.
2. Press the **Open** button to open the compartment cover.
3. Remove the jammed paper.
4. Position the paper roll and close the compartment cover (see “2.6 Loading the Paper Roll” on page *19*).

Jammed Paper in the Cutter Blade

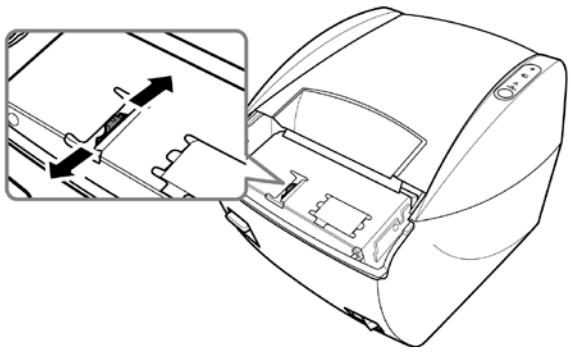
When paper jams in the cutter blade, do the following steps to remove it:

1. Turn off the printer.
2. Pull the cutter cover to remove it.



NOTE:
Be careful not to touch the manual cutter when removing the cover.

3. Roll the knob upwards to manually cut the jammed paper.



4. Completely roll the knob downwards to return the cutter blade to its normal position.

5. Press the **Open** button to open the compartment cover.

NOTE:
If the compartment cover does not open after pressing the **Open** button, the cutter blade is not in its normal position. Roll the knob downwards to position the cutter blade back.
DO NOT forcibly open the compartment cover.

6. Remove the jammed paper.
7. Position the paper roll and close the compartment cover (see “2.6 Loading the Paper Roll on page ***19***).
8. Align and slide the cutter cover back.

Paper Jam Considerations

When using any printer, paper jams are inevitable. However, if this happens frequently, follow the precautions below to prevent paper jams from occurring.

- Use only approved paper rolls by the manufacturer.
- Load the paper roll according to the instructions in this manual.
- If using a paper roll with adhesives on the back, make sure that no portion of the paper is peeled off. Otherwise, the adhesive may stick on the printer.
- Check for torn papers previously stuck in the printer or any foreign object inside the printer.

3.5 Advanced Settings

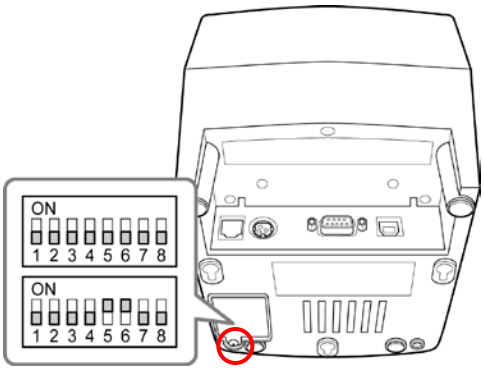
The printer is shipped with default factory settings suitable for most users. However, it also offers advanced settings for users with special requirements.

Use the DIP switches to adjust settings such as transmission speed, handshaking, parity check, printer density, and others.

Adjusting the Settings

WARNING:
Turn off the power and unplug the power cord from the wall outlet before adjusting the DIP switches.
Changes made with the power on have no effect until the printer is restarted.

1. Lay the printer upside down on a flat even surface.
2. Unscrew the DIP switch cover.
3. Adjust the DIP switches according your preference. Refer to the table below for DIP switch configurations.



DIP Switch Tables

TABLE 1 : DIP Switch Set 1

SW (Switch No.)	Function	ON	OFF
1	Handshaking	XON/XOFF	DTR/DSR
2	Data Bits	7-bit	8-bit
3	Parity Check	Yes	No
4	Parity Selection	Even	Odd
5	Transmission Speed Selection	See *Table 1-1: Transmission Speed*	
6			
7	Reserved		
8	Reserved		

Table 1-1 : Transmission Speed

Transmission Speed	SW 5	SW 6
4800 Baud	ON	ON
9600 Baud	ON	OFF
19200 Baud	OFF	ON
115200 Baud	OFF	OFF

TABLE 2 : DIP Switch Set 2

Switch No.	Function	ON	OFF
1	Kitchen bell with cash drawer	Enable	Disable
2	Kitchen bell with cutter	Enable	Disable
3	Reserved		
4	Reserved		
5	Print Density	See *Table 2-1: Print Density*	
6			
7	Chinese font	Not use	Use
8	Reserved		

Table 2-1 : Print Density

Print Density	SW 5	SW 6
1 (Light)	ON	ON
2 (Normal)	OFF	OFF
3 (Middle)	ON	OFF
4 (Dark)	OFF	ON

3.6 Printer Status Report

The printer can generate a status report to show the current system configuration. The report includes the following:

- Supported paper width
- Printing speed
- RS-232 configuration such as Baud rate, parity check, data bits, and flow control scheme
- Supported emulation language
- Print density
- Receive error handling method

Printing the Status Report

Before printing the status report, make sure that the printer is turned off and the cover is closed.

To print the status report, press and hold the **FEED** button and turn on the printer. The printer prints the current status. After printing, the printer goes to standby mode.

Chapter 4 EPSON ESC/POS Commands

Command	Hexadecimal	Function
<HT>	09	Horizontal tab
<LF>	0A	Print and line feed
<FF>	0C	Print and return to standard mode (In page mode)
<CR>	0D	Print and carriage return
<CAN>	18	Cancel print data in page mode
<DLE> <EOT> n	10 04 n	Real-time status transmission
<DLE> <ENQ> n	10 05 n	Real-time request to printer
<DLE> <DC4> ...	10 14 01 m t	Generate pulse in real-time
<ESC> <FF>	1B 0C	Print data in page mode
<ESC> <SP> n	1B 20 n	Set right-side character spacing
<ESC> ! n	1B 21 n	Select print mode(s)
<ESC> $ nL nH	1B 24 nL nH	Set absolute print position
<ESC> % n	1B 25 n	Select / cancel user-defined character set
<ESC> & y c1 c2 ...	1B 26 y c1 c2 ...	Define user-defined characters
<ESC> * m nL nH ...	1B 2A m nL nH ...	Select bit-image mode
<ESC> - n	1B 2D n	Turn underline mode on/off
<ESC> 2	1B 32	Select default line spacing
<ESC> 3 n	1B 33 n	Set line spacing
<ESC> = n	1B 3D n	Select peripheral device
<ESC> ? n	1B 3F n	Cancel user-defined characters
<ESC> @	1B 40	Initialize printer

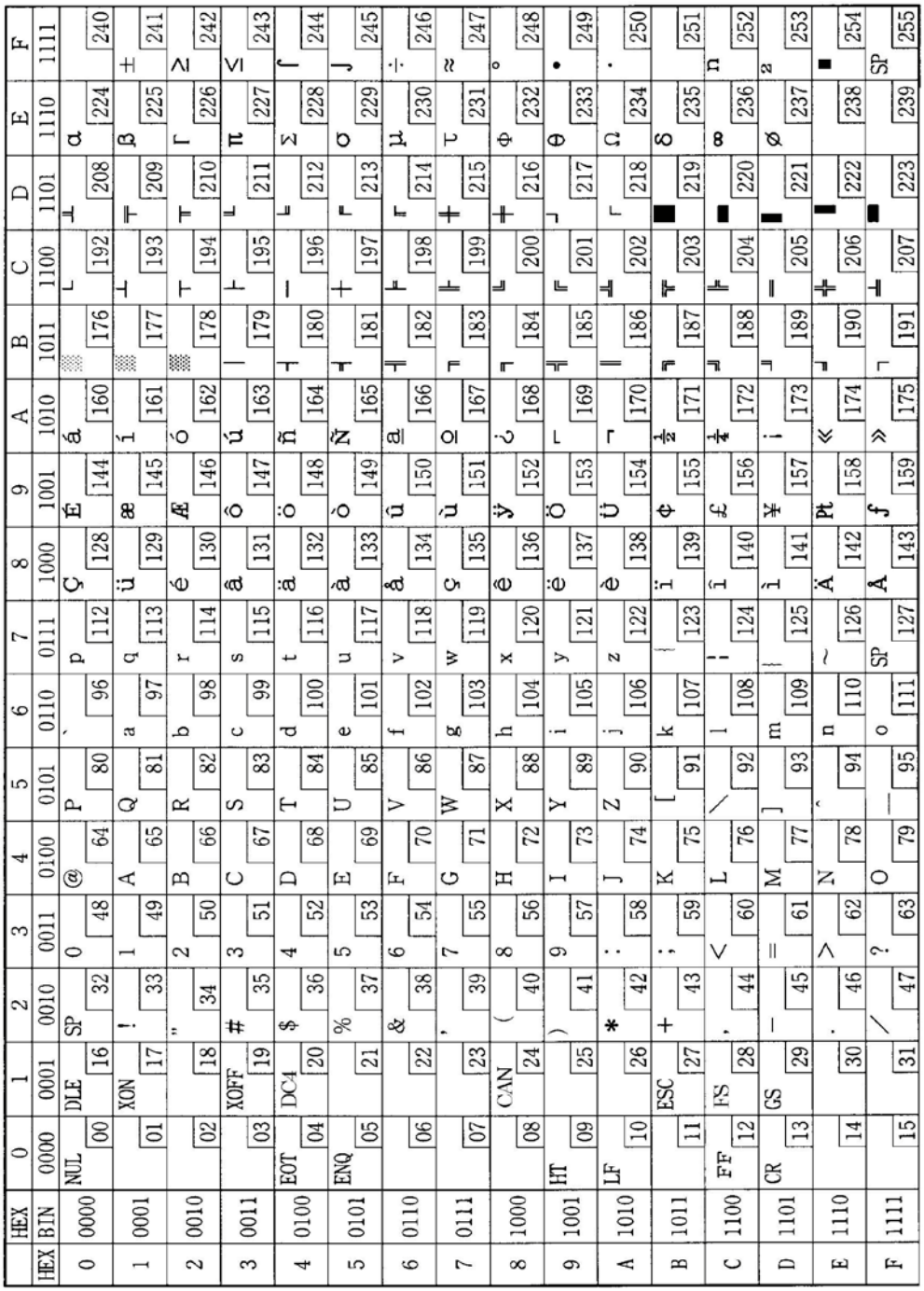
<ESC> D n1...nK 00	1B 44 n1...nk 00	Set horizontal tab positions
<ESC> E n	1B 45 n	Turn emphasized mode on/off
<ESC> G n	1B 47 n	Turn double-strike mode on/off
<ESC> J n	1B 4A n	Print and feed paper
<ESC> L	1B 4C	Select page mode
<ESC> M n	1B 4D n	Select character font
<ESC> R n	1B 52 n	Select an international character Set
<ESC> S	1B 53	Select standard mode
<ESC> T n	1B 54 n	Select print direction in page mode
<ESC> V n	1B 56 n	Turn 90°clockwise rotation mode on/off
<ESC> W xL ...	1B 57 xL ...	Set printing area in page mode
<ESC> \ nL nH	1B 5C nL nH	Set relative print position
<ESC> a n	1B 61 n	Select justification
<ESC> c 3 n	1B 63 33 n	Select paper sensor(s) to output paper-end signals
<ESC> c 4 n	1B 63 34 n	Select paper sensor(s) to stop printing
<ESC> c 5 n	1B 63 35 n	Enable/disable panel buttons
<ESC> d n	1B 64 n	Print and feed n lines
<ESC> p m t1 t2	1B 70 m t1 t2	General pulse
<ESC> t n	1B 74 n	Select character code table

<ESC> { n	1B 7B n	Turn upside-down printing mode on/off
FS ! n	1C 21 n	Set print mode(s) for Kanji characters
FS &	1C 26	Select Kanji character mode
FS S n1 n2	1C 53 n1 n2	Set Kanji character spacing
FS W n	1C 57 n	Turn quadruple-size mode on/off for Kanji characters
FS g 1 m a1 a2 a3 a4 nL nH d1...dk	1C 67 31 m a1 a2 a3 a4 nL nH d1...dk	Write to NV user memory
FS g 2 m a1 a2 a3 a4 nL nH	1C 67 32 m a1 a2 a3 a4 nL nH	Read from NV user memory (P83)
FS – n	1C 2D n	Turn underline mode on/off for Kanji characters
FS .	1C 2E	Cancel Kanji character mode
<FS> p n m	1C 70 n m	Print NV bit image
<FS> q n ...	1C 71 n ...	Define NV bit image
<GS> ! n	1D 21 n	Select character size
<GS> $ nL nH	1D 24 nL nH	Set absolute vertical print position in page mode
<GS> (A ...	1D 28 41 ...	Execute test print
<GS> * x y ...	1D 2A x y ...	Define downloaded bit image
<GS> / m	1D 2F m	Print downloaded bit image
<GS> :	1D 3A	Start/end macro definition
<GS> B n	1D 42 n	Turn white/black reverse printing mode on/off
<GS> H n	1D 48 n	Select printing position of HRI characters
<GS> L nL nH	1D 4C nL nH	Set left margin
<GS> P x y	1D 50 x y	Set horizontal and vertical motion units

<GS> V m <GS> V m n	1D 56 m 1D 56 m n	Select cut mode and cut paper
<GS> W nL nH	1D 57 nL nH	Set printing area width
<GS> \ nL nH	1D 5C nL nH	Set relative vertical print position in page mode
<GS> ^ r t m	1D 5E r t m	Execute macro
<GS> a n	1D 61 n	Enable/disable Automatic Status Back (ASB)
<GS> f n	1D 66 n	Select font for HRI characters
<GS> h n	1D 68 n	Set bar code height
<GS> k m ....NUL <GS> k m n ...	1D 6B m... NUL 1D 6B m n ...	Print bar code
<GS> r n	1D 72 n	Transmit status
<GS> v 0 m ...	1D 76 30 m...	Print raster bit image
<GS> w n	1D 77 n	Set bar code width

Chapter 5 Code Page Tables

Page 1 PC437: USA, Standard Europe



	HEX	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
	BIN	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
HEX																	
0	0000	NUL 00	DLE 16	SP 32	0 48	@ 64	P 80	` 96	p 112	Ç 128	É 144	á 160	▒ 176	└ 192	╨ 208	α 224	240
1	0001	XON 17	! 33	A 49	Q 65	a 81	q 97	b 113	r 114	ü 129	æ 145	í 161	▒ 177	┴ 193	╤ 209	ß 225	± 241
2	0010	" 18	34	B 50	R 66	b 82	r 98	c 114	s 115	é 130	Æ 146	ó 162	▓ 178	┬ 194	╥ 210	Γ 226	≥ 242
3	0011	XOFF 19	# 35	C 51	S 67	c 83	s 99	d 115	t 116	â 131	ô 147	ú 163	| 179	├ 195	╙ 211	π 227	≤ 243
4	0100	EOT 20	DC4 $ 36	D 52	T 68	d 84	t 100	d 116	t 116	ä 132	ö 148	ñ 164	┤ 180	─ 196	╘ 212	Σ 228	⌠ 244
5	0101	ENQ 21	% 37	E 53	U 69	e 85	u 101	e 117	u 117	à 133	ò 149	Ñ 165	╡ 181	┼ 197	╒ 213	σ 229	⌡ 245
6	0110	22	& 38	F 54	V 70	f 86	v 102	f 118	v 118	å 134	û 150	ª 166	╢ 182	╞ 198	╓ 214	µ 230	÷ 246
7	0111	23	' 39	G 55	W 71	g 87	w 103	g 119	w 119	ç 135	ù 151	º 167	╖ 183	╟ 199	╫ 215	τ 231	≈ 247
8	1000	CAN 24	(40	H 56	X 72	h 88	x 104	h 120	x 120	ê 136	ÿ 152	¿ 168	╕ 184	╚ 200	╪ 216	Φ 232	° 248
9	1001	HT 25	) 41	I 57	Y 73	i 89	y 105	i 121	y 121	ë 137	Ö 153	⌐ 169	╣ 185	╔ 201	┘ 217	Θ 233	• 249
A	1010	LF 26	* 42	J 58	Z 74	j 90	z 106	j 122	z 122	è 138	Ü 154	¬ 170	║ 186	╩ 202	┌ 218	Ω 234	· 250
B	1011	ESC 27	+ 43	; 59	K 75	[91	k 107	{ 123	{ 123	ï 139	¢ 155	½ 171	╗ 187	╦ 203	▉ 219	δ 235	251
C	1100	FS 28	, 44	< 60	L 76	\ 92	l 108	¦ 124	¦ 124	î 140	£ 156	¼ 172	╝ 188	╠ 204	▌ 220	∞ 236	n 252
D	1101	GS 29	- 45	= 61	M 77	] 93	m 109	} 125	} 125	ì 141	¥ 157	¡ 173	╜ 189	═ 205	▐ 221	ø 237	2 253
E	1110	30	. 46	> 62	N 78	^ 94	n 110	~ 126	~ 126	Ä 142	₧ 158	« 174	╛ 190	╬ 206	▄ 222	ε 238	■ 254
F	1111	31	/ 47	? 63	O 79	_ 95	o 111	SP 127	SP 127	Å 143	ƒ 159	» 175	┐ 191	╧ 207	▀ 223	∩ 239	SP 255

Page 2 Katakana for Japanese

	HEX	8	9	A	B	C	D	E	F
HEX	BIN	1000	1001	1010	1011	1100	1101	1110	1111
0	0000	ー 128	丄 144	SP 160	ー 176	タ 192	ミ 208	二 224	× 240
1	0001	▬ 129	丅 145	。 161	ア 177	チ 193	ム 209	卜 225	円 241
2	0010	▬ 130	丬 146	「 162	イ 178	ツ 194	メ 210	丰 226	年 242
3	0011	▬ 131	卜 147	」 163	ウ 179	テ 195	モ 211	刊 227	月 243
4	0100	■ 132	148	、 164	エ 180	ト 196	ヤ 212	◢ 228	日 244
5	0101	■ 133	一 149	・ 165	オ 181	ナ 197	ユ 213	◣ 229	時 245
6	0110	■ 134	丨 150	ヲ 166	カ 182	ニ 198	ヨ 214	◥ 230	分 246
7	0111	■ 135	丨 151	ア 167	キ 183	ヌ 199	ラ 215	◤ 231	秒 247
8	1000	丨 136	「 152	イ 168	ク 184	ネ 200	リ 216	♠ 232	干 248
9	1001	▌ 137	冂 153	ウ 169	ケ 185	ノ 201	ル 217	♥ 233	市 249
A	1010	▌ 138	乚 154	エ 170	コ 186	ハ 202	レ 218	✦ 234	区 250
B	1011	▌ 139	亅 155	オ 171	サ 187	ヒ 203	ロ 219	♣ 235	町 251
C	1100	▌ 140	𠂉 156	ヤ 172	シ 188	フ 204	ワ 220	● 236	村 252
D	1101	▌ 141	丶 157	ユ 173	ス 189	ヘ 205	ン 221	○ 237	人 253
E	1110	▌ 142	乀 158	ヨ 174	セ 190	ホ 206	゛ 222	／ 238	▒ 254
F	1111	┼ 143	丿 159	ッ 175	ソ 191	マ 207	° 223	＼ 239	SP 255

Page 3 PC850: Multilingual

	HEX	8	9	A	B	C	D	E	F
HEX	BIN	1000	1001	1010	1011	1100	1101	1110	1111
0	0000	Ç 128	É 144	á 160	▒ 176	└ 192	ð 208	Ó 224	— 240
1	0001	ü 129	æ 145	í 161	▒ 177	┴ 193	Ð 209	ß 225	± 241
2	0010	é 130	Æ 146	ó 162	▒ 178	┬ 194	Ê 210	Ô 226	‗ 242
3	0011	â 131	ô 147	ú 163	│ 179	├ 195	Ë 211	Ò 227	¾ 243
4	0100	ä 132	ö 148	ñ 164	┤ 180	─ 196	È 212	õ 228	¶ 244
5	0101	à 133	ò 149	Ñ 165	Á 181	┼ 197	ı 213	Õ 229	§ 245
6	0110	å 134	û 150	ª 166	Â 182	ã 198	Í 214	µ 230	÷ 246
7	0111	ç 135	ù 151	º 167	À 183	Ã 199	Î 215	þ 231	¸ 247
8	1000	ê 136	ÿ 152	¿ 168	© 184	╚ 200	Ï 216	Þ 232	° 248
9	1001	ë 137	Ö 153	® 169	╣ 185	╔ 201	┘ 217	Ú 233	¨ 249
A	1010	è 138	Ü 154	¬ 170	║ 186	╩ 202	┌ 218	Û 234	· 250
B	1011	ï 139	ø 155	½ 171	╗ 187	╦ 203	■ 219	Ù 235	¹ 251
C	1100	î 140	£ 156	¼ 172	╝ 188	╠ 204	▄ 220	ý 236	³ 252
D	1101	ì 141	Ø 157	¡ 173	¢ 189	═ 205	¦ 221	Ý 237	² 253
E	1110	Ä 142	× 158	« 174	¥ 190	╬ 206	Ì 222	238	■ 254
F	1111	Å 143	ƒ 159	» 175	┐ 191	¤ 207	▀ 223	´ 239	SP 255

Page 4 PC860: Portuguese

	HEX	8	9	A	B	C	D	E	F
HEX	BIN	1000	1001	1010	1011	1100	1101	1110	1111
0	0000	Ç 128	É 144	á 160	▒ 176	└ 192	╨ 208	α 224	≡ 240
1	0001	ü 129	À 145	í 161	▒ 177	┴ 193	╤ 209	ß 225	± 241
2	0010	é 130	È 146	ó 162	▒ 178	┬ 194	╥ 210	Γ 226	≥ 242
3	0011	â 131	ô 147	ú 163	│ 179	├ 195	╙ 211	π 227	≤ 243
4	0100	ã 132	õ 148	ñ 164	┤ 180	─ 196	╘ 212	Σ 228	⌠ 244
5	0101	à 133	ò 149	Ñ 165	╡ 181	┼ 197	╒ 213	σ 229	⌡ 245
6	0110	Á 134	Ú 150	ª 166	╢ 182	╞ 198	╓ 214	µ 230	÷ 246
7	0111	ç 135	ù 151	º 167	╖ 183	╟ 199	╫ 215	τ 231	≈ 247
8	1000	ê 136	Ì 152	¿ 168	╕ 184	╚ 200	╪ 216	Φ 232	° 248
9	1001	Ê 137	Õ 153	⌐ 169	╣ 185	╔ 201	┘ 217	Θ 233	• 249
A	1010	è 138	Ü 154	¬ 170	║ 186	╩ 202	┌ 218	Ω 234	· 250
B	1011	Í 139	¢ 155	½ 171	╗ 187	╦ 203	■ 219	δ 235	√ 251
C	1100	Ô 140	£ 156	¼ 172	╝ 188	╠ 204	▄ 220	∞ 236	n 252
D	1101	ì 141	Ù 157	¡ 173	╜ 189	═ 205	▌ 221	ø 237	² 253
E	1110	Ã 142	₧ 158	« 174	╛ 190	╬ 206	▐ 222	∈ 238	■ 254
F	1111	Â 143	Ó 159	» 175	┐ 191	╧ 207	▀ 223	∩ 239	SP 255

Page 5 PC863: Canadian-French

	HEX	8	9	A	B	C	D	E	F
HEX	BIN	1000	1001	1010	1011	1100	1101	1110	1111
0	0000	Ç 128	É 144	¦ 160	░ 176	└ 192	╨ 208	α 224	≡ 240
1	0001	ü 129	È 145	´ 161	▒ 177	┴ 193	╤ 209	ß 225	± 241
2	0010	é 130	Ê 146	ó 162	▓ 178	┬ 194	╥ 210	Γ 226	≥ 242
3	0011	â 131	ô 147	ú 163	│ 179	├ 195	╙ 211	π 227	≤ 243
4	0100	Â 132	Ë 148	¨ 164	┤ 180	─ 196	╘ 212	Σ 228	⌠ 244
5	0101	à 133	Ï 149	¸ 165	╡ 181	┼ 197	╒ 213	σ 229	⌡ 245
6	0110	¶ 134	û 150	³ 166	╢ 182	╞ 198	╓ 214	µ 230	÷ 246
7	0111	ç 135	ù 151	— 167	╖ 183	╟ 199	╫ 215	τ 231	≈ 247
8	1000	ê 136	¤ 152	Î 168	╕ 184	╚ 200	╪ 216	Φ 232	° 248
9	1001	ë 137	Ô 153	⌐ 169	╣ 185	╔ 201	┘ 217	Θ 233	• 249
A	1010	è 138	Ù 154	¬ 170	║ 186	╩ 202	┌ 218	Ω 234	· 250
B	1011	ï 139	¢ 155	½ 171	╗ 187	╦ 203	▉ 219	δ 235	√ 251
C	1100	î 140	£ 156	¼ 172	╝ 188	╠ 204	▄ 220	∞ 236	n 252
D	1101	‗ 141	Û 157	¾ 173	╜ 189	═ 205	▌ 221	ø 237	² 253
E	1110	À 142	Ü 158	« 174	╛ 190	╬ 206	▐ 222	∈ 238	■ 254
F	1111	§ 143	ƒ 159	» 175	┐ 191	╧ 207	▀ 223	∩ 239	SP 255

Page 6 PC865: Nordic

	HEX	8	9	A	B	C	D	E	F
HEX	BIN	1000	1001	1010	1011	1100	1101	1110	1111
0	0000	Ç 128	É 144	á 160	▒ 176	└ 192	╨ 208	α 224	≡ 240
1	0001	ü 129	æ 145	í 161	▒ 177	┴ 193	╤ 209	ß 225	± 241
2	0010	é 130	Æ 146	ó 162	▓ 178	┬ 194	╥ 210	Γ 226	≥ 242
3	0011	â 131	ô 147	ú 163	│ 179	├ 195	╙ 211	π 227	≤ 243
4	0100	ä 132	ö 148	ñ 164	┤ 180	─ 196	╘ 212	Σ 228	⌠ 244
5	0101	à 133	ò 149	Ñ 165	╡ 181	┼ 197	╒ 213	σ 229	⌡ 245
6	0110	å 134	û 150	ª 166	╢ 182	╞ 198	╓ 214	µ 230	÷ 246
7	0111	ç 135	ù 151	º 167	╖ 183	╟ 199	╫ 215	τ 231	≈ 247
8	1000	ê 136	ÿ 152	¿ 168	╕ 184	╚ 200	╪ 216	Φ 232	° 248
9	1001	ë 137	Ö 153	⌐ 169	╣ 185	╔ 201	┘ 217	Θ 233	• 249
A	1010	è 138	Ü 154	¬ 170	║ 186	╩ 202	┌ 218	Ω 234	· 250
B	1011	ï 139	ø 155	½ 171	╗ 187	╦ 203	▉ 219	δ 235	√ 251
C	1100	î 140	£ 156	¼ 172	╝ 188	╠ 204	▄ 220	∞ 236	n 252
D	1101	ì 141	Ø 157	¡ 173	╜ 189	═ 205	▌ 221	ø 237	2 253
E	1110	Ä 142	Pt 158	« 174	╛ 190	╬ 206	▐ 222	∈ 238	■ 254
F	1111	Å 143	ƒ 159	¤ 175	┐ 191	╧ 207	▀ 223	∩ 239	SP 255

Page 7 WPC1252: West European Latin

	HEX	8	9	A	B	C	D	E	F
HEX	BIN	1000	1001	1010	1011	1100	1101	1110	1111
0	0000	€ 128	SP 144	SP 160	° 176	À 192	Đ 208	à 224	ð 240
1	0001	SP 129	‘ 145	¡ 161	± 177	Á 193	Ñ 209	á 225	ñ 241
2	0010	‚ 130	’ 146	¢ 162	² 178	Â 194	Ò 210	â 226	ò 242
3	0011	ƒ 131	“ 147	£ 163	³ 179	Ã 195	Ó 211	ã 227	ó 243
4	0100	„ 132	” 148	¤ 164	´ 180	Ä 196	Ô 212	ä 228	ô 244
5	0101	… 133	• 149	¥ 165	µ 181	Å 197	Õ 213	å 229	õ 245
6	0110	† 134	– 150	¦ 166	¶ 182	Æ 198	Ö 214	æ 230	ö 246
7	0111	‡ 135	— 151	§ 167	· 183	Ç 199	× 215	ç 231	÷ 247
8	1000	ˆ 136	˜ 152	¨ 168	¸ 184	È 200	Ø 216	è 232	ø 248
9	1001	‰ 137	™ 153	© 169	¹ 185	É 201	Ù 217	é 233	ù 249
A	1010	Š 138	š 154	ª 170	º 186	Ê 202	Ú 218	ê 234	ú 250
B	1011	‹ 139	› 155	« 171	» 187	Ë 203	Û 219	ë 235	û 251
C	1100	Œ 140	œ 156	¬ 172	¼ 188	Ì 204	Ü 220	ì 236	ü 252
D	1101	SP 141	SP 157	- 173	½ 189	Í 205	Ý 221	í 237	ý 253
E	1110	Ž 142	ž 158	® 174	¾ 190	Î 206	Þ 222	î 238	þ 254
F	1111	SP 143	Ÿ 159	¯ 175	¿ 191	Ï 207	ß 223	ï 239	ÿ 255

Page 8 PC866: Cyrillic#2

	HEX	8	9	A	B	C	D	E	F
HEX	BIN	1000	1001	1010	1011	1100	1101	1110	1111
0	0000	А 128	Р 144	а 160	176	192	208	р 224	Ё 240
1	0001	Б 129	С 145	б 161	177	193	209	с 225	ё 241
2	0010	В 130	Т 146	в 162	178	194	210	т 226	Є 242
3	0011	Г 131	У 147	г 163	179	195	211	у 227	є 243
4	0100	Д 132	Ф 148	д 164	180	196	212	ф 228	Ї 244
5	0101	Е 133	Х 149	е 165	181	197	213	х 229	ї 245
6	0110	Ж 134	Ц 150	ж 166	182	198	214	ц 230	Ў 246
7	0111	З 135	Ч 151	з 167	183	199	215	ч 231	ў 247
8	1000	И 136	Ш 152	и 168	184	200	216	ш 232	° 248
9	1001	Й 137	Щ 153	й 169	185	201	217	щ 233	∙ 249
A	1010	К 138	Ъ 154	к 170	186	202	218	ъ 234	· 250
B	1011	Л 139	Ы 155	л 171	187	203	219	ы 235	√ 251
C	1100	М 140	Ь 156	м 172	188	204	220	ь 236	№ 252
D	1101	Н 141	Э 157	н 173	189	205	221	э 237	¤ 253
E	1110	О 142	Ю 158	о 174	190	206	222	ю 238	254
F	1111	П 143	Я 159	п 175	191	207	223	я 239	SP 255

Page 9 PC852: Latin2

	HEX	8	9	A	B	C	D	E	F
HEX	BIN	1000	1001	1010	1011	1100	1101	1110	1111
0	0000	Ç 128	É 144	á 160	176	192	đ 208	Ó 224	240
1	0001	ü 129	Ĺ 145	í 161	177	193	Đ 209	ß 225	˝ 241
2	0010	é 130	Í 146	ó 162	178	194	Ď 210	Ô 226	˛ 242
3	0011	â 131	ô 147	ú 163	179	195	Ë 211	Ń 227	ˇ 243
4	0100	ä 132	ö 148	Ą 164	180	196	ď 212	ń 228	˘ 244
5	0101	ů 133	Ľ 149	ą 165	Á 181	197	Ň 213	ň 229	§ 245
6	0110	ć 134	ľ 150	Ž 166	Â 182	Ă 198	Í 214	Š 230	÷ 246
7	0111	ç 135	Ś 151	ž 167	Ě 183	ă 199	Î 215	š 231	¸ 247
8	1000	ł 136	ś 152	Ę 168	Ş 184	200	ě 216	Ŕ 232	° 248
9	1001	ë 137	Ö 153	ę 169	185	201	217	Ú 233	¨ 249
A	1010	Ő 138	Ü 154	170	186	202	218	ŕ 234	˙ 250
B	1011	ő 139	Ť 155	ź 171	187	203	219	Ű 235	ű 251
C	1100	î 140	ť 156	Č 172	188	204	220	ý 236	Ř 252
D	1101	Ź 141	Ł 157	ş 173	Ż 189	205	Ţ 221	Ý 237	ř 253
E	1110	Ä 142	× 158	« 174	ż 190	206	Ů 222	ţ 238	254
F	1111	Ć 143	č 159	» 175	191	¤ 207	223	´ 239	SP 255

Page 10 PC858: Multilingual + Euro Symbol

	HEX	8	9	A	B	C	D	E	F
HEX	BIN	1000	1001	1010	1011	1100	1101	1110	1111
0	0000	Ç 128	É 144	á 160	▒ 176	└ 192	ð 208	Ó 224	— 240
1	0001	ü 129	æ 145	í 161	▒ 177	┴ 193	Đ 209	ß 225	± 241
2	0010	é 130	Æ 146	ó 162	▒ 178	┬ 194	Ê 210	Ô 226	‗ 242
3	0011	â 131	ô 147	ú 163	│ 179	├ 195	Ë 211	Ò 227	¾ 243
4	0100	ä 132	ö 148	ñ 164	┤ 180	─ 196	È 212	õ 228	¶ 244
5	0101	à 133	ò 149	Ñ 165	Á 181	┼ 197	€ 213	Õ 229	§ 245
6	0110	å 134	û 150	ª 166	Â 182	ã 198	í 214	µ 230	÷ 246
7	0111	ç 135	ù 151	º 167	À 183	Ã 199	Î 215	þ 231	¸ 247
8	1000	ê 136	ÿ 152	¿ 168	© 184	╚ 200	Ï 216	Þ 232	° 248
9	1001	ë 137	Ö 153	® 169	╣ 185	╔ 201	┘ 217	Ú 233	¨ 249
A	1010	è 138	Ü 154	¬ 170	║ 186	╩ 202	┌ 218	Û 234	· 250
B	1011	ï 139	ø 155	½ 171	╗ 187	╦ 203	■ 219	Ù 235	¹ 251
C	1100	î 140	£ 156	¼ 172	╝ 188	╠ 204	▄ 220	ý 236	³ 252
D	1101	ì 141	Ø 157	¡ 173	¢ 189	═ 205	¦ 221	Ý 237	² 253
E	1110	Ä 142	× 158	« 174	¥ 190	╬ 206	Ì 222	¯ 238	▪ 254
F	1111	Å 143	ƒ 159	» 175	┐ 191	¤ 207	▀ 223	´ 239	SP 255

Page 11 International Character Set

Country	ASCII code (Hex)											
	23	24	40	5B	5C	5D	5E	60	7B	7C	7D	7E
U.S.A	#	$	@	[	\	]	^	`	{	|	}	~
France	#	$	à	°	ç	§	^	`	é	ù	è	¨
Germany	#	$	§	Ä	Ö	Ü	^	`	ä	ö	ü	ß
U.K.	£	$	@	[	\	]	^	`	{	|	}	~
Denmark I	#	$	@	Æ	Ø	Å	^	`	æ	ø	å	~
Sweden	#	¤	É	Ä	Ö	Å	Ü	é	ä	ö	å	ü
Italy	#	$	@	°	\	é	^	ù	à	ò	è	ì
Spain I	Pt	$	@	¡	Ñ	¿	^	`	¨	ñ	}	~
Japan	#	$	@	[	¥	]	^	`	{	|	}	~
Norway	#	¤	É	Æ	Ø	Å	Ü	é	æ	ø	å	ü
Denmark II	#	$	É	Æ	Ø	Å	Ü	é	æ	ø	å	ü
Spain II	#	$	á	¡	Ñ	¿	é	`	í	ñ	ó	ú
Latin America	#	$	á	¡	Ñ	¿	é	ü	í	ñ	ó	ú
Korea	#	$	@	[	W	]	^	`	{	|	}	~

Chapter 6: Cleaning the Printer

WARNING:
Be sure to turn off the power and unplug the printer from the wall outlet before cleaning the printer. Failure to do so may cause electric shock.

6.1 Cleaning the Print Head

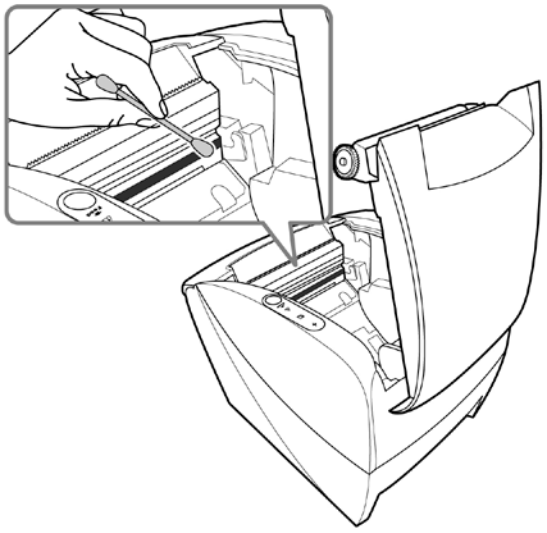
NOTE:
You need a cotton swab and alcohol solvent such as ethanol, methanol, or isopropyl.

WARNING:

- After printing, the print head can be very hot. DO NOT touch it. Let the print head cool before you clean it.
- DO NOT touch the print head with your fingers or any hard object. This may damage the print head.

To clean the print head, do the following:

1. Turn off the printer.
2. Press the **Open** button to open the compartment cover.
3. Clean the print head with a cotton swab moistened with alcohol.



6.2 Cleaning the Manual Cutter

WARNING:

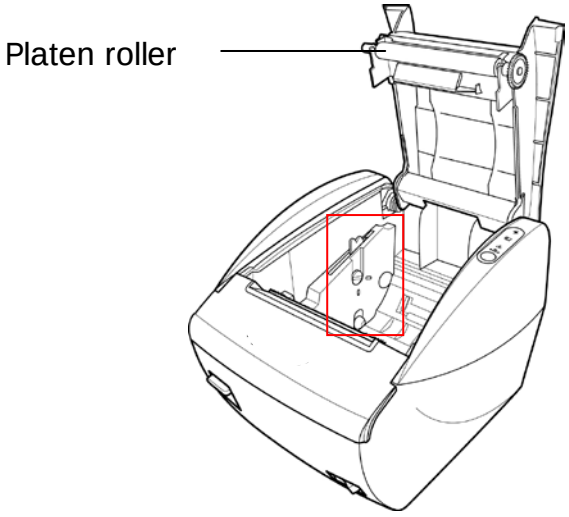
- DO NOT touch the cutter teeth with bare hands.
- DO NOT use liquid or alcohol solvent to clean the cutter. Otherwise, it may become rusty.

To clean the manual cutter, use tweezers to remove scraps of paper in between its teeth.

6.3 Cleaning Interior Components

NOTE:
You need a brush and cotton swabs moistened with water.

Use cotton swabs moistened with water to clean the platen roller and the paper sensor components such as the knob and holes.



To clean the compartment and other components, brush the interior compartment to remove bits of paper. Or use a cotton swab moistened with water to remove sticky paper or dust.

6.4 Cleaning the Housing

NOTE:
You need a damped cloth with water.

WARNING:
DO NOT apply alcohol solvent or strong cleaning liquid on the printer housing.

To clean the printer housing, use a damped cloth with water.

Chapter 7: Troubleshooting

The printer is simple and generally trouble-free. However, if you encounter problems while using the printer, check the reasons and solutions to these problems before calling for service. If the solutions stated in this document cannot correct the problem, call authorized service personnel.

7.1 Status LED and Printer Beep

Problem	Possible Cause	Solution
All the status LEDs are off.	• The printer is turned off.	• Check if the power cord is connected to the wall outlet and the printer.
		• Turn the printer on.
Paper LED is amber.	• Paper is low.	• Load a new paper roll. See “3.2 Replacing the Paper Roll” on page 21.
Error LED and Paper LED are lit and the printer beeps.	• No paper.	• Load a new paper roll. See “3.2 Replacing the Paper Roll” on page 21.
Error LED is red.	• The compartment cover is opened.	• Close the compartment cover.
Error LED is flashing red and the printer beeps.	• The compartment cover opened while printing.	• Close the compartment cover. The printer will recover automatically and resume printing.
	• The print head temperature is too high.	• Do not do anything. Let the printer cool down for a few minutes. When the print head cools down, the printer will recover automatically and resume printing.
	• Paper is jammed.	• Remove the jammed paper. See “3.4 Removing Jammed Paper” on page 23.

7.2 Printer Operation

Problem	Possible Cause	Solution
The paper roll does not come out.	• Paper is jammed.	• Remove the jammed paper. See “3.4 Removing Jammed Paper” on page 23.
	• No paper.	• Load a new paper roll. See “3.2 Replacing the Paper Roll” on page 21.
The printer suddenly stops printing.	• Paper is jammed	• Remove the jammed paper. See “3.4 Removing Jammed Paper” on page 23.
Printing is faded or of poor quality.	• Print head is dirty.	• Clean the print head. See “4.1 Cleaning the Print Head” on page 41.
	• Print density is not set correctly.	• Adjust the print density settings. See “3.5 Advanced Settings” on page 25.
	• The paper roll used is of low quality or is not approved by the manufacturer.	• Use only approved paper rolls.
Printer is turned on, but does not function.	• The host computer or other peripheral is not connected to the printer.	• Check the cable connection.
		• Check that the host computer is getting enough power.
	• The compartment cover is opened.	• Close the compartment cover.
Printer is printing but nothing appears on the paper.	• Paper roll may be installed incorrectly, or the paper used is incorrect.	• Check if the paper roll is installed correctly.
		• Check if the paper roll is approved by the manufacturer. If not, replace the paper roll.

Problem	Possible Cause	Solution
A portion of the paper is not printed.	• There might be a problem with the printer mechanism.	• Contact authorized service personnel for service.
Compartment cover does not open after the Open button is pressed.	• The cutter blade is not positioned correctly.	• Move the cutter blade back to its normal position. See “3.4 Jammed Paper in the Cutter Blade” on page 23.

Chapter 8: Specifications

8.1 Printer Specifications

Model Name: INNO-POS P80				
Printing method		Thermal line printing		
Printing speed		220 mm/s		
Command		ESC/POS		
Driver		Windows and OPOS		
Character structure		Alphanumeric (Font A)	Alphanumeric (Font B)	Chinese
		12 x 24	9 x 17	24 x 24
Number of columns		48 columns	64 columns	24 columns
Character size (W x H)		1.5 x 3.0 mm	1.1 x 2.1 mm	3.0 x 3.0 mm
Density		203 dpi		
Fonts		International code page x 26, Traditional/Simplified Chinese, Japanese, Korean, and Thai		
Bar code		UPC-A/E, EAN8, EAN13, CODE39, CODE93, CODABAR, CODE128, and ITF		
Detectors		Paper end, Paper near end, Cover, Print head overheat, and Cutter jam		
Reliability	Head	100 km		
	Cutter	1,500,000 times		
Memory	Flash	2 MB (extendable to 4 MB)		
	Flash	8 MB (extendable to 16MB)		
Power supply		24V DC/2.5A		

Model Name: INNO-POS P80		
Interface		Standard: RS-232C, USB
		Optional: Parallel, Ethernet, and Bluetooth
Cash drawer		2 drivers (DC 24V)
Environmental Specifications		
EMC & Safety		CE / FCC Class A
Operating temperature		0°C ~ 45°C
Storage temperature		-10°C ~ 50°C
Operating humidity		10% ~ 90% RH
Storage humidity		10% ~ 90% RH
Physical Specifications		
Housing	Cover	Yellow, Pink, Light blue, Silver black, and Golden chocolate
	Body	Cool white, Dark gray
Dimensions (W x D x H)		155 x 190 x 140 mm
Net Weight		1.3 kg

NOTE:
Product specification is subject to change without prior notice.

8.2 Paper Specifications

To ensure printing quality, use only approved paper rolls with the following specifications:

Paper Roll Specification	
Paper	Single-ply thermal paper roll
Roll Size	80 ± 0.5 (W) x 83 mm (Diameter)
Thickness	0.05 ~ 0.06 mm

Appendix I. : User Guide for Ethernet Interface

Description:

INNO-POS P80 Receipt Thermal Printer is Ethernet+USB. Since the usage of Ethernet interface is quite different from other interfaces, the methods how to configure and utilize the Ethernet board are documented in the paper. Please read it before use.

With Ethernet interface, the INNO-POS P80 is a network printer and can serve more than one PC while on duty. Over the Ethernet, we implement the TCP/IP protocol to transfer data and manage printer from PC which has the ability to browse the internet with various browser such as IE from Microsoft, chrome from Google , Firefox and so forth.

Installation

Before the INNO-POS P80 is able to work with network interface, both the hardware and software are needed to be set up properly. The section details the installation on both hardware and software.

Hardware

Please connect INNO-POS P80 with a RJ-45 Ethernet cable. While connecting, the LED on the RJ-45 connector will blink. There is no other setting needed on the printer.

Software

Since the data transfer is via TCP/IP protocol, each INNO-POS P80 must possess an IP address before working on the network. The default IP address is programmed as following:

Default IP address: **192. 168. 1. 200**

Default ID: **admin**

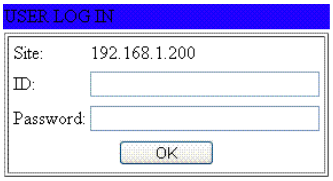
Default Password: **1234**

Note that you can change the IP address as you wish. If you forget the IP address assigned to an INNO-POS P80, you can retrieve its default status with the VCOM tool mentioned in later section.

Configure INNO-POS P80

Connect your INNO-POS P80 with RJ-45 Ethernet cable and power on the machine. Open the IE or other internet browser you are familiar with.

Type the IP address of your INNO-POS P80 in the URL field. If you did not ever change the IP address, it should be the default value as following:



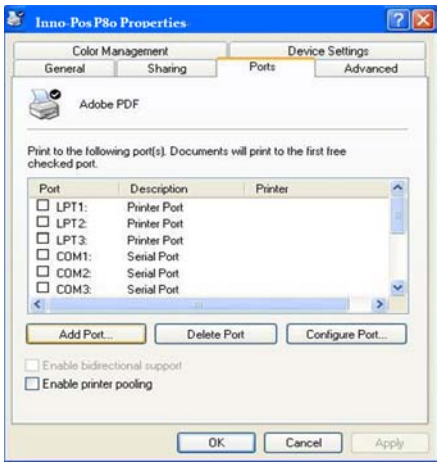
Use default ID and password to login. Please enter the exact ID and Password if you have changed the ID and Password. The Administrator Setting screen will show up after login. With the Administrator Setting screen, you can change the TCP/IP related attributes such as IP address, subnet mask and Gateway to fit your network configuration. If you don't know how to set these data, please consult your IT technician for help.

Printing via TCP / IP

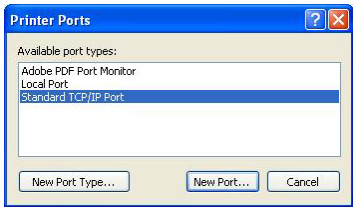
There are two methods of sending data to INNO-POS P80 for printing. The first one is to use standard TCP/IP port as connection port of printer driver. The second one is to use VCOM tool to create a virtual COM port as the connection port of printer driver.

Use Standard TCP / IP Port

Install the printer driver that comes with the companion Disc.
Open the Printers and Faxes from Windows Start menu
Select INNO-POS P80 and right click it to enter "Properties" of INNO-POS P80. Select "Ports".

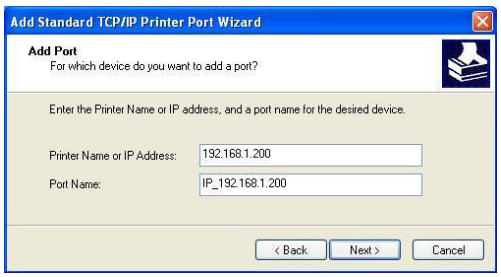


1. Click "Add Port ..." Select Standard TCP/IP Port and then click "New Port..." to add a standard TCP/IP port.

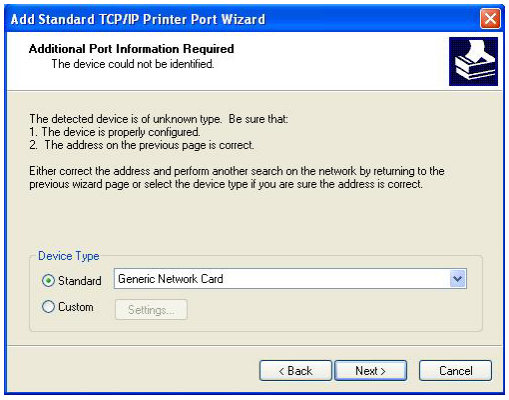


2. The Add Standard TCP/IP Port Wizard will be evoked. Press “Next” to proceed.

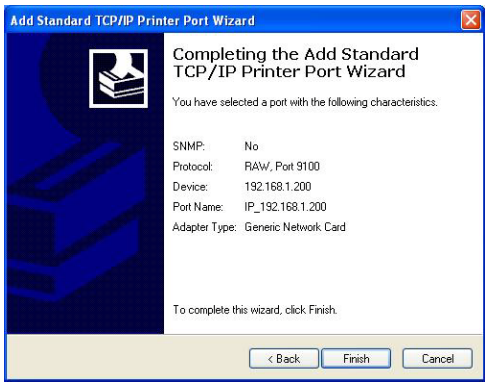
3. Input the IP address in the upper field and press “Next”.


Add Standard TCP/IP Printer Port Wizard
Add Port
For which device do you want to add a port?
Enter the Printer Name or IP address, and a port name for the desired device.
Printer Name or IP Address:
192.168.1.200
Port Name:
IP_192.168.1.200
< Back
Next >
Cancel

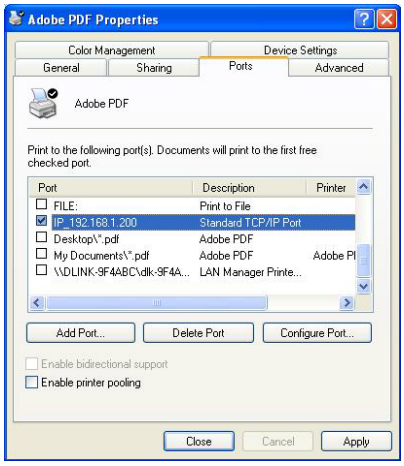
4. Select Standard type and Generic Network Card then click “Next”.


Add Standard TCP/IP Printer Port Wizard
Additional Port Information Required
The device could not be identified.
The detected device is of unknown type. Be sure that:
1. The device is properly configured.
2. The address on the previous page is correct.
Either correct the address and perform another search on the network by returning to the previous wizard page or select the device type if you are sure the address is correct.
Device Type
Standard
Generic Network Card
Custom
Settings...
< Back
Next >
Cancel

5. After displaying the information of the newly added port, click “Finish” to end the procedure.


Add Standard TCP/IP Printer Port Wizard
Completing the Add Standard TCP/IP Printer Port Wizard
You have selected a port with the following characteristics.
SNMP: No
Protocol: RAW, Port 9100
Device: 192.168.1.200
Port Name: IP_192.168.1.200
Adapter Type: Generic Network Card
To complete this wizard, click Finish.
< Back
Finish
Cancel

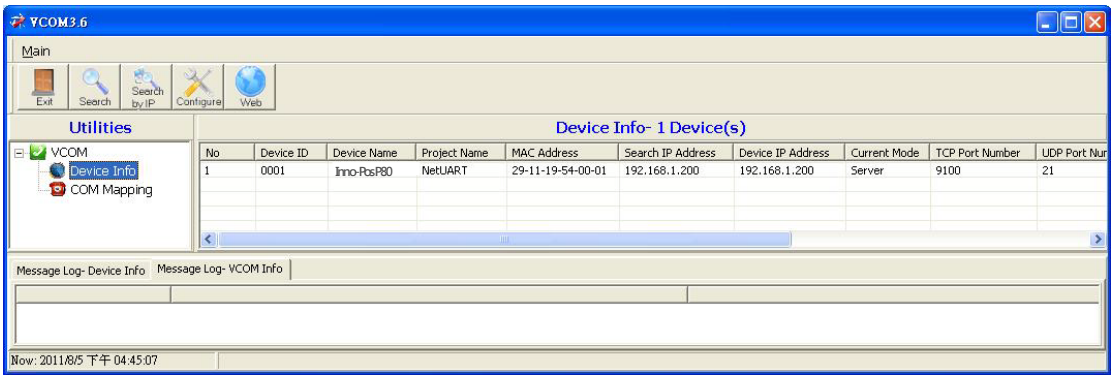
6.In the option “Ports” of INNO-POS P80’s properties sheets, a newly added TCP/IP port can be found. Select the new port and then click “Apply” to make it effect.



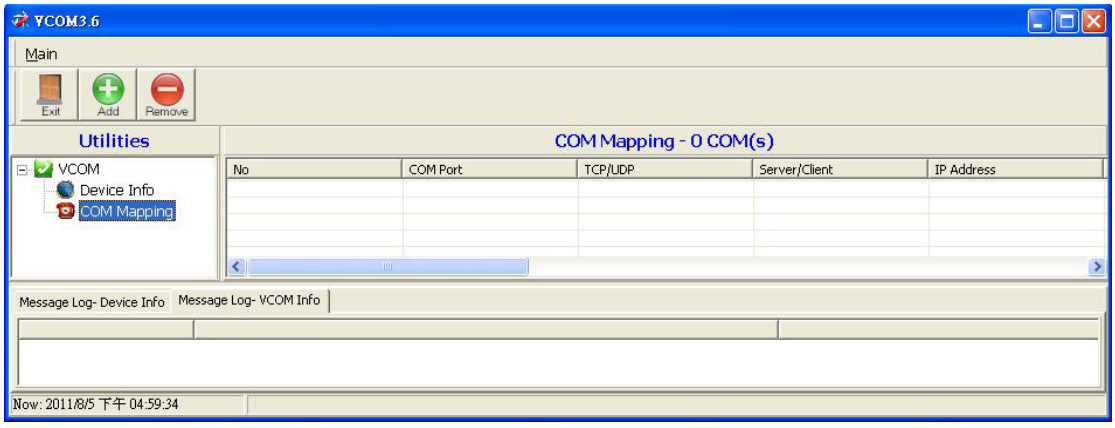
Use Virtual-COM Tool

Install VCOM application that comes along with the companion Disc and execute it.

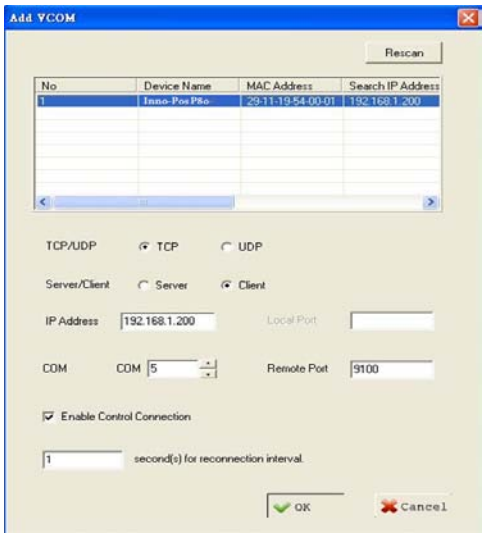
1.Click option “Search” to search printers on the network. You can get IP address of the printer from here.



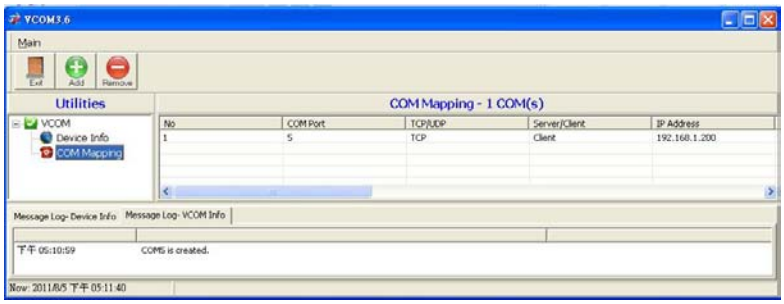
2.Click “COM Mapping” to switch to COM Mapping mode



3.Click ”Add” to enter virtual COM setting screen. Select INNO-POS P80 in the device list and most fields are filled with proper values automatically. You can select a different COM only when this COM is not occupied. Click “OK” to create a virtual COM.



4. After the virtual COM has been created, you can see the mapping on the list. Your PC now has a new COM port virtually. You can check the device manager for the new COM port.

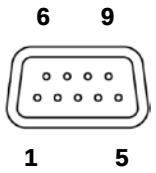


5. Install the printer driver with port created above.

Appendix II : RS232C Connector Pins Assignment

Serial RS232C connector to PC/HOST

Connector Type: D-sub 9Pin (Female)



1. Pins assignment

Pin #	Signal	I/O	Transmission	Function Description
1				
2	TXD	Output	Printer→ PC/Host	Printer status data
3	RXD	Input	PC/Host→ Printer	Receive data
4	DTR	Input	PC/Host→ Printer	PC/HOST set ready signal
5	GND			Power ground
6	DSR	Output	PC/Host→ Printer	Printer set ready signal
7	CTS	Input	PC/Host→ Printer	PC/Host ACK to RTS signal
8	RTS	Output	Printer→ PC/Host	Printer request send signal
9				

2. Series Cable Connection for Printer

PC/HOST PRINTER

1 —— 1
2 —— 2
3 —— 3
4 —— 4
5 —— 5
6 —— 6
7 —— 7
8 —— 8
9 —— 9